



FLEETWOOD PARK SECONDARY SCHOOL

7940—156th Street, Surrey, B.C. V3S 3S5 Ph: (604) 597-2301

Fax: (604) 597-6481

Website: www.sd36.bc.ca/fltsec

GRADES 10-11-12

COURSE SELECTION

2012 - 2013



COURSE PLANNING NIGHT

Scheduled for January 4th

HAS BEEN CANCELLED

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FLEETWOOD PARK SECONDARY SCHOOL

| Applied Skills | Fine Arts |
|---|---|
| <p>Accounting 11 Accounting 12 Auto Tech 12: Electricity & Electronics Auto Tech 12: Engine & Drive Train Automotive Technology 11 Automotive Technology 12 (BAA) Culinary Training 11 (BAA) Culinary Training 12 (BAA) Fashion Design & Pattern Making 11 (BAA) Fashion Design Tailoring 12 (BAA) Psychology Business Computer Applications 11 Business Education 10: General Cafeteria Training 11 Cafeteria Training 12 Carpentry & Joinery 11 Carpentry & Joinery 12 Carpentry 12A/12/B/12C Carpentry/Joinery 12: Cabinet Constr. Carpentry/Joinery 12: CNC Wood Processes Carpentry/Joinery 12:Furniture Constr. Computer Studies 10 Drafting & Design 10 Drafting & Design 11 Drafting/Design 12: Architecture Drafting/Design 12: Engineer/Mechanical Electronics 11 & 12 Electronics 12: Digital Systems Electronics 12: Robotics Electronics Technology 10 Engineering & Design 10 & 11 Family Studies 11 & 12 Foods and Nutrition 10 & 11 & 12 ICT: Digital Media Development 11 & 12 Industrial Design 12 Marketing 12 Professional Cook Training 11 A & B & C Professional Cook Training 12 A & B & C Textiles Studies 10 Textiles 11 & 12 Tourism 11 & 12 Woodwork by Design 10</p> | <p>Art Foundations 11 Art Foundations 12 (BAA) Animation 10 (BAA) Animation 11 (BAA) Animation 12 (BAA) Yearbook 11 (BAA) Yearbook 12 CG Arts: Animation 12 Choral Music 11: Concert Choir Choral Music 12: Concert Choir Concert Band 10 Concert Choir 10 Dance 10 Boys: Break Pop Hip Hop Dance 10: Performance Dance 11 Boys: Break Pop Hip Hop Dance 12 Boys: Break Pop Hip Hop Dance: Choreography 11 Dance: Choreography 12 Dance: Performance 11 Dance: Performance 12 Drama 10: General Drama: Film & Television 11 Drama: Film & Television 12 Instrumental Music 11: Concert Band Instrumental Music 11: Jazz Band Instrumental Music 12: Concert Band Instrumental Music 12: Jazz Band Music 10: Jazz Band Studio Arts 11 & 12: Ceramics & Sculpture Studio Arts 11 & 12: Drawing & Painting Theatre Performance 11 & 12: Acting Theatre Production 11 Theatre Production 12: Technical Theatre Theatre Production 12: Theatre Management Visual Arts 10: General Visual Arts 10: Media Arts Photography Visual Arts: Media Arts 11 & 12</p> |
| | <div style="border: 2px solid black; background-color: #e0e0e0; padding: 10px; width: fit-content; margin: 0 auto;"> <p>NOTE: BAA Courses Board Authorized Courses and PE Courses do NOT fulfill the Fine Arts or Applied Skill Requirement</p> </div> |

GRADUATION REQUIREMENTS

To graduate, students must earn a minimum of 80 credits over grades 10, 11 and 12 as follows:

80 credits over Grades 10, 11 and 12

48 required credits:

| | |
|---|---|
| Language Arts 10 (4 credits)..... | English 10 |
| Language Arts 11 (4 credits)..... | English 11 |
| Language Arts 12 (4 credits) * | English 12, Communications 12, Technical & Professional Communications 12 |
| Social Studies 10 (4 credits) | |
| Social Studies 11 (4 credits) | |
| Science 10 (4 credits) | |
| Science 11 or 12 (4 credits)*..... | Biology, Chemistry, Physics, Earth Science, Science & Tech |
| Mathematics 10 (4 credits)*..... | Foundations of Math and Precalculus 10, Apprenticeship & Workplace Math 10 |
| Mathematics 11 or 12 (4 credits)*..... | Foundations of Math 11, Pre Calculus 11, Apprenticeship & Workplace Math 12 |
| Physical Education 10 (4 credits) | |
| Fine Arts and/or Applied Skills 10, 11 or 12 (4 credits)* | |
| Planning 10 (4 credits) | |

*one from a number of course options

Students must also:

- ✓ Complete **4** Graduation Transition credits through seminars and the Presentations in April
- ✓ Complete a minimum of **28 grade 10-12** elective credits

An unlimited number of credits from board-authorized or post-secondary electives may count toward graduation of which a minimum of 16 credits are required at the Grade 12 level.

There are five Provincially Examined Courses in Grades 10 - 12 which are required for graduation and are used to calculate provincial scholarships.

- Grade 10 - English 10, Science 10, Mathematics 10
- Grade 11 - Social Studies 11
- Grade 12 - English 12 **OR** Communications 12





Fleetwood Park Graduation Transitions Overview

Personal Health

Daily physical activity and a commitment to fitness and physical and emotional well-being are key to healthy living.

Community Connections

Life after Graduation includes the world of work and community responsibilities.

Career and Life

Graduation Transitions requires students to explore personal and career goals and to create a plan for life after graduation.

Personal Attributes of a BC Graduate

In their intellectual development, graduates should achieve:

- competency in reading, writing, mathematics, social studies and science, including the ability to use these skills in problem-solving and decision-making
- the ability to use and understand information technologies
- the ability to communicate effectively with a range of audiences; this includes the ability to access, synthesize and present information; it also includes
- knowledge of both a first and second language
- an understanding and appreciation of artistic and aesthetic expression
- the ability to think critically and solve problems, using information to develop opinions and make sound judgments and decisions
- an understanding of the importance of a lifelong commitment to continuous learning

In their human and social development, graduates should achieve:

- the knowledge and skills required to be socially responsible citizens who act in caring and principled ways, respecting the diversity of all people and the rights of others to hold different ideas and beliefs
- the knowledge and understanding they need to participate in democracy as Canadian and global citizens, acting in accordance with the laws, rights and responsibilities of a democracy
- the attitudes, knowledge and positive habits they need to be healthy individuals, responsible for their physical and emotional well-being
- the attitudes and competencies they need to be community contributors who take the initiative to improve their own and others' quality of life

In their career development, graduates should achieve:

- the confidence and competencies they need to be self-directed individuals who display initiative, set priorities, establish goals, and take responsibility for pursuing those goals in an ever-changing society
- knowledge and understanding of the range of career choices available to them, the prospects for success in those careers, and the actions required to pursue specific career paths
- experience in planning for, and working towards, career and life goals
- the skills required to work effectively and safely with others, and to succeed both as individual and collaborative workers



Fleetwood Park Graduation Transitions Checklist for 2012-13

Name: _____

Pupil Number: _____ Telephone: _____

PEN #: _____ Teacher Evaluator: _____

| | STUDENT | TEACHER |
|---|---------|---------|
| Personal Health – 150 minutes per week - logged- - P.E. / Dance/ Sports/ Fitness logs* - Personal Health Reflection* - GT Nutrition* | | |
| Community Connections – 30 hours- - Work Experience Documents (Gr 10 or Science Explorations)* <u>OR</u> - FP Independent Work Exp. Reflection* - Updated Resume & Cover Letter* - Volunteering / Community Service | | |
| Career and Life Transition Plan - Career Investigation Project* - Career Cruising (Grade 10 & 12) * <u>Print 1 copy for your binder / 1 for Career Education</u> - Course Planning 10 – 12 *- - Reflection on attributes of a BC graduate * - Revised Financial Plan (Grade 12) * - Entrance & Exit letters Grades 10, 11 & 12* - (PSI) Post Secondary Choices Form* ← - (TVR) Unofficial Transcript Verification * ← - Post Secondary Liaison Day | | |
| Final Report Cards Grades 8 –12 (as many as possible) * | | |
| School Development The Arts / Fine Arts / Sciences / Applied Skills | | |
| Community Development - Athletics / Music / Drama / Volunteering / Youth Groups | | |
| Personal Collection - Grade 10 through 12- - memorabilia (certificates/achievements /photos / etc.) | | |
| Grade 12 Presentation APRIL, 2012 *REQUIRED elements. Evidence must be in binder. Info on First Class ← Information and link to website on First Class | | |

Teacher Evaluator's Signature: _____

Grad Transitions requirements have been met REQUIREMENT MET

Has NOT met criteria for Grad Transitions REVIEW

Course Planning for 2012/2013



English

English 10

[4 CREDITS - LA 10]

Prerequisite: English 9 or Humanities 9

Through the integration of reading, writing, oral communication, viewing and representing, English 10 is designed to develop students' skills and appreciation of literature and language. The activities and resources are selected to appeal to a range of interests and abilities.

▶ Students will read for a variety of purposes, demonstrate interpretive understanding, and critically analyze short stories, novels, poetry, drama, and non-fiction.

▶ In writing, students will gain experience using multiple styles, employing all stages of the writing process including prewriting, drafting, editing, proofreading, and publishing. Emphasis will be on multiparagraph composition.

▶ Oral communication skills will develop a critical awareness and appreciation of audience, purpose, and context.

▶ Students will identify, analyze, and interpret techniques used to convey meaning in visual and mass media.

Students will select and create an assortment of representational forms to assist in the expression, development and extension of ideas.

Note: 20% of the final mark in English 10 will be determined by the Provincial Exam.

PROV EXAM

English 11

[4 CREDITS - LA 11]

Prerequisite: English 10

English 11 integrates the skills of reading and writing, speaking and listening, viewing and representing. It continues to develop and enhance students' appreciation of literature and language.

English 12

[4 CREDITS - LA 12]

Prerequisite: English 11

This course is recommended and designed for students who achieved 60% or higher in English 11. Written expression and reading comprehension skills need to be at grade level or higher to succeed in this course.

English 12 draws together the learning experiences of 12 years of schooling. It encourages the development of students' confidence, independence, and appreciation in areas of reading, writing, oral communication, viewing and representing. It continues to develop and enhance students' appreciation of literature and language.

Note: 40% of the final mark in English 12 will be determined by the Provincial Exam.

PROV EXAM

For both English 11 and English 12: the activities and resources are increasingly more sophisticated, but are carefully selected to appeal to a range of students' interests and abilities.

▶ Students will read for a variety of purposes, demonstrate interpretive understanding, and critically analyze short stories, novels, poetry, drama (eg. a Shakespeare play) essay and media.

▶ Students will write in a variety of formats employing all stages of the writing process. Emphasis will be on the research/analytic essay.

▶ Oral communication skills will develop a critical awareness and appreciation of audience, purpose and context.

▶ Students will identify, analyze, interpret, and evaluate techniques used to convey meaning in visual and mass media.

▶ Students will select and create an assortment of representational forms to assist in the expression, development and extension of ideas.

English 12 Honours

PROV EXAM

[4 CREDITS - LA 12]

Prerequisite: English 11

Through the integration of reading, writing, oral communications, viewing and representing, Honours English courses are designed to develop students' skills and appreciation of literature and language. The activities and resources are selected to appeal to those students who demonstrate a high level of interest and ability in English. This course is designed for students who achieved at least 80% or higher in English 11.

Students should expect a rich and fast-paced learning environment. Students will receive similar grading procedures as in the regular English program.

Communications 12

PROV EXAM

[4 CREDITS - LA 12]

Prerequisite: English 11

Communications 12 is an alternative to English 12. It is recommended for students who struggle in written expression and reading comprehension. It is also recommended for students who received 60% or less in English 11 or who were credited with Communications 11.

Like English 12, it develops the skills of reading, writing, oral communication, viewing and representing. It is intended to develop and enhance students' appreciation of literature and language. The activities and resources are increasingly more sophisticated, but are carefully selected to appeal to a range of students' interests and abilities.

► *Students will read for a variety of purposes and demonstrate understanding of short stories, novels, poetry, drama, and non-fiction.*

► *In writing, the emphasis will be on practical composition skills, employing all stages of the writing process including prewriting, drafting, editing, proofreading, and publishing.*

► *Oral communication skills develop an awareness and appreciation of audience, purpose and context.*

► *In viewing, students will study techniques used to convey meaning in visual and mass media.*

► *Students select and create a variety of representational forms to assist in the development and expression of ideas.*



English Literature 12

PROV EXAM - optional

[4 CREDITS - Grade 12]

Prerequisite: English 10 or 11 (open to Grade 11 & 12 students)

A course designed to fulfill a student's love of literature. An excellent course for Honours students and any student who plans on continuing English studies in college or university. The course includes the study of Anglo-Saxon poetry, Chaucer, Shakespeare, and 18th, 19th and 20th century literature. Recommended for students who enjoy poetry, prose and great writers.

An "A" standing in English 10 or an "A" or "B" standing in English 11 is strongly recommended.

Writing 12

[4 CREDITS - Grade 12]

Prerequisite: English 10 (open to grade 11 & 12 students)

Writing 12 is a course for students who have a flair for writing. Students will explore writing style in prose, poetry and plays. The emphasis is on students' writing; however, one of the main benefits is that students reach a deeper understanding of themselves and the work of others. Students are encouraged to experiment in their writing and to seek publication.

An "A" standing in English 10 or an "A" or "B" standing in English 11 is strongly recommended.



Social Studies



Social Studies 10

[4 CREDITS - SS 10]

Prerequisite: Social Studies 9 or Humanities 9

Social Studies 10 continues to build upon themes introduced in earlier grades and focuses on the development of Canada as a nation during the late 18th and 19th centuries, with emphasis on Western Canada. The historical and contemporary geography of Canada is studied in detail. Canada's contemporary history is examined through exploration of First Nations, French and English relations. Current events are used to supplement resources and aid students in making connections between Canada's history and Modern Canadian Society.

Social Studies 11

[4 CREDITS - SS 11]

Prerequisite: Social Studies 10

Twentieth century Canadian history is studied in this course. The growth of Canada as a nation and its struggle for self government are considered. The students will gain an understanding of the Canadian system of government. In the geography section, students will examine living standards, development population, environment and economics geography and will include focus on third world development. Evaluation includes a provincial final examination counting for 20% of the student's final grade.

Comparative Civilizations 12

[4 CREDITS - Grade 12]

Prerequisite: Social Studies 11

Comparative Civilizations traces the history of both European and non-European civilizations and emphasizes the artistic expressions of different cultures. Comparative Civilizations 12 emphasizes cultural rather than political history. This course will examine the traditions and way of life of people from selected time periods. It will also focus on the literature, art, architecture, music and dance of the time periods under study. In making cross-cultural comparisons, at least one European and one Asian culture will be studied.

BC First Nations Studies 12

[4 CREDITS - SS11 OR 4 CREDITS - Grade 12 Selective Studies]

Prerequisite: None

PROV EXAM - optional

This course is open to all students in Grades 11 or 12. Students who pass this course are exempt from taking Social Studies 11 (SS11) and receive either 4 foundation credits (for SS11) or 4 Grade 12 selective studies credits. This course focuses on the richness and diversity of First Nations' languages and cultures by exploring them within their own unique contexts. It is intended to provide a conceptual foundation and respect for the similarities among and differences between the diverse cultures of the world.

Geography 12

[4 CREDITS - Grade 12]

Prerequisite: Social Studies 11

Both physical and human geography are studied in this course. The physical section covers topics such as earthquakes and volcanoes, weathering and erosion, glaciers, oceans and rivers, and weather and climate. The human section discusses topics such as resource management and the causes of and the solutions to global and local pollution. A "B" standing in Social Studies 11 with an interest in sciences and academics is strongly recommended before entering this course.

History 12

[4 CREDITS - Grade 12]

Prerequisite: Social Studies 11

History 12 is a world history course which deals with the major events and trends of the 20th century. Topics include: the end of WW 1; growth of Communism and Nazism; WWII; Cold War; post WWII nationalism in the Middle East, Far East and Africa; and the fall of Communism in the Soviet Union. A "C+" standing in Social Studies 11 is strongly recommended before entering this course.

Law 12

[4 CREDITS - Grade 12]

Prerequisite: Social Studies 11

This is a practical course in which the student gains an understanding of the origins and processes of Canadian Law. The course enables the students to better understand their own rights, limitations and obligations within the Canadian legal system. The four main areas of study are the foundations of law, criminal law, civil law, and family law. Students will also be given the opportunity to participate in debates, case studies, mock trials and field trips as part of the course. They will be encouraged to expand and improve their research skills through many of the projects and activities in the course. In addition, guest speakers will be used to give personal and expert relevance to the topics covered and to bring awareness to the many careers available within Canada's legal system.

Science

Science 10 PROV EXAM

[4 Credits - Science 10]

Prerequisite: Science 9

Students will extend their understanding of the major fields of science. The topics that are the basis for Science 10 are sustaining Earth's ecosystems, chemical reactions, radioactivity, motion and energy transfer in natural systems.

Note: 20% of the final mark is determined by the Provincial Exam.

Science & Technology 11

[4 CREDITS - Science 11]

Prerequisite: Science 10 recommended

This course is intended primarily for students who do not intend to continue their studies in science past Grade 11. The issues covered in this course are designed to develop the critical processing of information. The following topics are explored using current information technology: Nature and Interaction of Science - (core), Optional topics include: Space, Transportation, Resource Management and Environmental Planning, Pollution, Energy and Environmental Trade-Offs, Medicine, Health and Technology, Shelter, Food Production and Distribution, Technology for the Home, Consumerism and Population, Military and Defense Technology, Leisure and Recreational Technology and the Future.

Earth Science 11

[4 CREDITS - Science 11]

Prerequisite: Science 10

Earth Science 11 is a survey course which, through lab and field experiments, explores the Earth and its environment in space. The following topics are the basis for Earth Science 11: Geology - materials, weathering, erosion, volcanoes, earthquakes, tectonics; Oceanography - basins and currents; Astronomy - stars, solar system, earth and moon; Atmosphere - pressure, winds, weather and climate; History - geological time, earth history.



Biology 11

[4 CREDITS - Science 11]

Prerequisite: Recommend C+ or better in Science 10

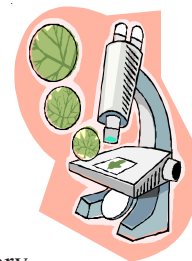
Biology 11 is a survey course of many areas of life. The course uses the themes of evolutionary change, unity and diversity and ecological relationships to focus on the study of different life forms. The following topics are the basis for Biology 11: Microbiology - viruses, bacteria and protozoans; Plant Biology - algae, mosses and ferns, gymnosperms and angiosperms; Animal Biology - invertebrates, insects and vertebrates; Ecology - population ecology.

Biology 12

[4 CREDITS - Grade 12]

Prerequisite: Biology 11 and Chemistry 11 strongly recommend a C+ or better

Biology 12 concentrates on the physiology of the human body. The following topics are the basis for Biology 12: Cell biology - molecular compounds, structures and processes; Human Anatomy and Physiology - cells, organs and the major organ systems. There will be some investigation and / or dissection of structures including the heart, kidney, and fetal pig.



Chemistry 11

[4 CREDITS - Science 11]

Prerequisite: Recommend C+ or better in Foundations of Math 10 and Science 10

Chemistry 11 is an introductory laboratory course concerned with the description, classification and theory of matter. The following topics are the basis for Chemistry 11: Introduction to Chemistry, (lab safety, measurement and communication, matter and its changes); Atoms, Molecules and Ions - (classification and nomenclature); Mole Concept (introduction, molar volume of gasses, percent composition and molarity); Chemical Reactions (introduction and stoichiometry); Atomic Theory (introduction, periodic table and chemical bonding); Solution Chemistry; Organic Chemistry (introduction, hydrocarbons and functional groups).

Chemistry 12

[4 CREDITS - Grade 12]

Prerequisite: Recommend C+ or better in Chemistry 11

Chemistry 12 is a problem-centered laboratory course involving more advanced concepts. Experimentation and problem solving are major parts of the course. The following topics are the basis for Chemistry 12: Reaction Kinetics; Equilibrium; Solubility of Ionic Substances, Acids, Bases and Salts; Oxidation - Reduction Reactions.

AP Chemistry 12

[4 CREDITS - Grade 12]

Prerequisite: Chemistry 11 and Chemistry 12

Chemistry 12AP is a higher-level chemistry course equivalent to a first year university course. Experimentation and problem solving are major parts of the course. At the completion of this course, students will be well-prepared to write the Advanced Placement exam. Chemistry 12AP completes the following Chemistry 12 topics: Acids, Bases and Salts; Oxidation Reduction Reactions. In addition, the following topics are the basis for Advanced Placement: Atomic and Electronic Structure; Chemical Bonding in Solids, Liquids, and Gases; Thermodynamics; Properties of Gases; Transition Metal Complexes.

Physics 11

[4 CREDITS - Science 11]

Prerequisite: Recommend C+ or better in Foundations of Math 10 and Science 10

Physics 11 is an introductory course that focuses on the principles and theories of physics, encourages investigation of physical relationships, and illustrates the relationship between theory and application. The following topics are investigated: Wave Motion and Geometric Optics; Kinematics; Dynamics; Energy; Special Relativity; Nuclear Fission and Fusion.

Physics 12

[4 CREDITS - Grade 12]

Prerequisite: Recommend C+ or better in Principles of Math 11 and Physics 11

Physics 12 is an advanced course for those who plan to continue studying science at a post secondary institution. This course will help students develop analytical, experimental and problem solving skills. The following topics will be studied: Vector Kinematics in Two Dimensions; Dynamics, Vector Dynamics; Work, Energy, and Power; Momentum; Equilibrium; Circular Motion; Gravitation; Electrostatics; Electric Circuits; Electromagnetism.

AP Physics 12

[4 CREDITS - Grade 12]

Prerequisite: Physics 11 and Physics 12

Physics 12AP is a higher-level physics course equivalent to a first year university course. This course helps develop analytical, experimental and problem solving skills. At the completion of this course, students will be well-prepared to write the Advanced Placement exam. The following topics are the basis for Physics 12AP: Mechanics; Electromagnetism



The common curriculum framework for grades 10-12 Mathematics includes 3 pathways. In grade 10, two pathways are available.

The goal of each pathway is to provide prerequisite attitudes, knowledge, skills and understanding for specific post-secondary programs for direct entry into the workplace.

Students are encouraged to consider their interests and aptitudes when selecting their course. Parents and students are also encouraged to research admission requirements at the various post-secondary institutions before committing to one of the pathways.

Math 10 (Foundations of Math and Precalculus 10) PROV EXAM

Prerequisite: Math 9

This course provides students with the fundamentals required for either the Foundations or Precalculus pathways in grades 11 and 12. It is designed for students who intend to pursue academic studies in either the Arts or the Sciences at the post-secondary level. Topics covered fall under the headings of algebra, number relations, functions, and measurement.

Apprenticeship and Workplace Math 10 PROV EXAM

Prerequisite: Math 9

This course is designed to provide students with the mathematical understandings and skills that are necessary for entry into most trades and direct entry into the work force. Topics covered will fall under the categories of numbers, measurement, geometry and algebra.

Apprenticeship and Workplace Math 11

[4 CREDITS - Math 11]

Prerequisite: any Math 10

This course is designed to provide students with the practical mathematical understanding and skills that are necessary for entry into most trades and direct entry into the work force. Learning outcomes include measurement, geometry, number, algebra, and statistics. This course is for students who are not bound for university as it does not fulfill the requirements for acceptance in most post-secondary institutions. It does, however, fulfill the Math 11 requirement for graduation. (Note: Students can take more than one Math 11 course for credit)

Foundations of Math 11

[4 CREDITS – Math 11]

Prerequisite: Foundations of Math and Precalculus 10

This course is designed for college or university bound students who are taking programs that DO NOT require calculus. Therefore, it is important that students are aware of the prerequisites of their anticipated post-secondary programs. Although any Math 11 is a minimum requirement for graduation, students who enrol in this course should expect to continue into Foundations of Mathematics 12 in order to maximize their chances of university acceptance. This course is academically rigorous, and its learning outcomes include measurement, geometry, logical reasoning, statistics, and relations and functions. Students should expect to put in a one hour minimum of daily review in order to guarantee success at this level. (Note: Students can take more than one Math 11 course for credit.)

Pre Calculus 11

[4 CREDITS – Math 11]

Prerequisite: Foundations of Math and Precalculus 10

This course is designed for college or university bound students who are taking programs that DO require calculus. Therefore, it is important that students are aware of the prerequisites of their anticipated post-secondary programs. Although any Math 11 is a minimum requirement for graduation, students who enrol in this course should expect to continue into Pre-Calculus 12 in order to maximize their chances of university acceptance. This course is very academically rigorous, and its learning outcomes include algebra and number, trigonometry, and relations and functions. Students should expect to put in a one hour minimum of daily review in order to guarantee success at this level. (Note: Students can take more than one Math 11 course for credit.)

Apprenticeship & Workplace Math 12

[4 CREDITS - Grade 12]

Prerequisite: Apprenticeship & Workplace Math 11

This course is designed to provide students with the practical mathematical understanding and skills that are necessary for entry into most trades and direct entry into the work force. Learning outcomes include measurement, geometry, number, algebra, statistics, and probability. This pathway is for students who are not bound for university as it does not fulfill the requirements for acceptance in most post-secondary institutions. (Note: Students can take more than one Math 12 course for credit.)

Foundations of Mathematics 12

[4 credits – Math 12]

Prerequisite: Foundations of Mathematics 11

This pathway is designed for college or university bound students who are taking programs that DO NOT require calculus. Therefore, it is important that students are aware of the prerequisites of their anticipated post-secondary programs.

This course is academically rigorous, and its learning outcomes include financial mathematics, logical reasoning, probability, and relations and functions. Students should expect to put in a one hour minimum of daily review and form their own study groups outside of class time in order to guarantee success at this level. A strong mark in this course will open doors in a wide variety of post-secondary programs. (Note: Students can take more than one Math 12 course for credit.)



Pre-Calculus 12

[4 credits – Math 12]

Prerequisite: Precalculus 11

This pathway is designed for college or university bound students who are taking programs that DO require calculus. Therefore, it is important that students are aware of the prerequisites of their anticipated post-secondary programs. This course is very academically rigorous, and its learning outcomes include trigonometry, relations and functions, and permutations and combinations. Students should expect to put in a one hour minimum of daily review and form their own study groups outside of class time in order to guarantee success at this level. A strong mark in this course will open doors in a wide variety of post-secondary programs. (Note: Students can take more than one Math 12 course for credit.)

Calculus 12

[4 CREDITS - Grade 12]

Prerequisite: Precalculus 12 (Recommend 75% or better)

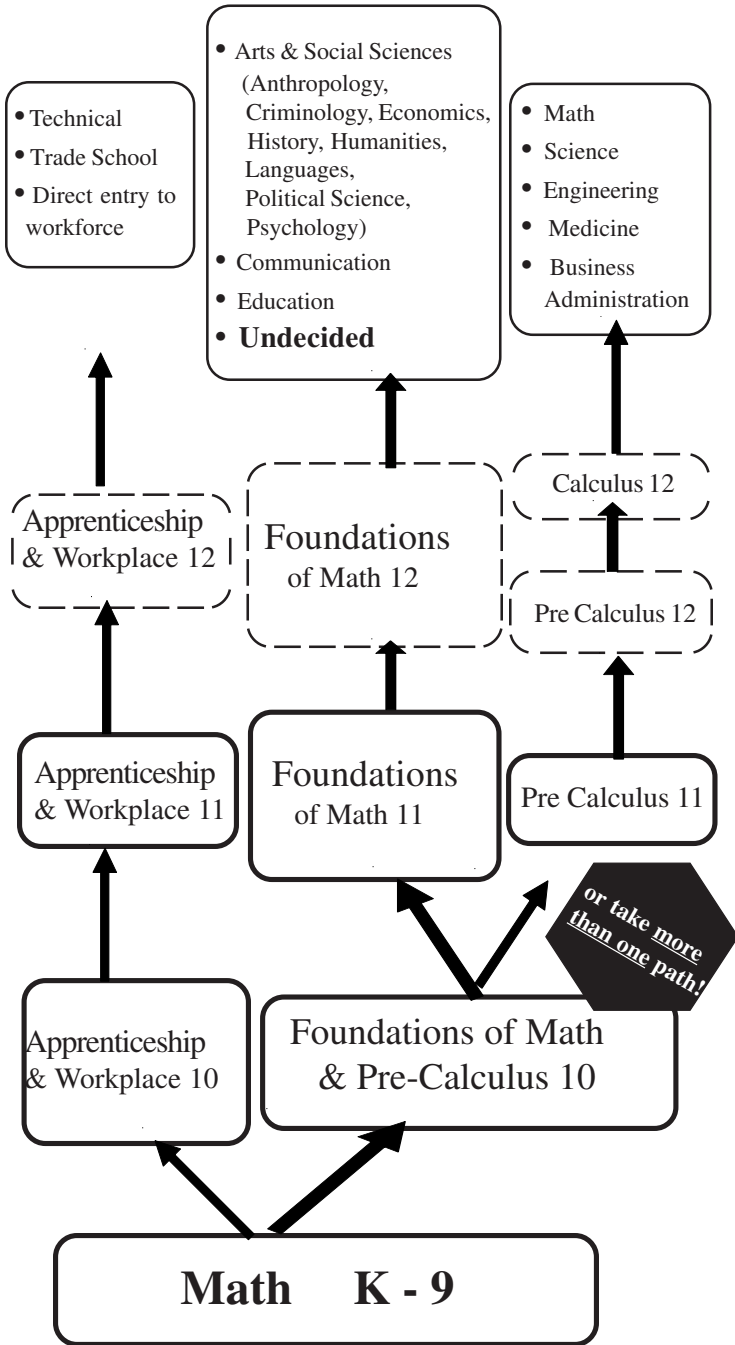
Precalculus 11 (Recommend 85% or better)

We will be offering the Ministry of Education Calculus 12 course with supplements that will make the course equivalent to the AP Calculus curriculum. This is a full-semester course, running in second semester only. Students must take Precalculus 12 in the first semester. Students must also realize that the final exam will be held in the middle of May (to accommodate the AP exam). In order to finish the course by then there will be early morning or after school classes. After the AP exam (middle of May) students will have a spare block in that class until the end of the year.

Students have different exam options at the end of the Calculus course. In addition to the school course exam, they can write the AP Calculus exam, or the Calculus challenge exam presented by the local universities. Students can get first year university calculus credit if they write the AP or the challenge exams, but will not get university credit if they write just the school exam. Upon passing the school exam and course, students will receive four grade 12 credits that will apply toward graduation.

Students must keep in mind that Calculus should be considered Honours Precalculus 12 and as such is very challenging and intense. Students should not take it with a Precalculus 12 mark of less than 75%. Students will be expected to spend 1 to 3 hours each evening on calculus homework.

Mathematics at Fleetwood Park Secondary



**** Please note that if a student wishes to take Math 12 Principles, they should have achieved a minimum of 67% in PM 11.**

Planning

PLANNING 10 (Planning 10)

[4 CREDITS - Planning 10]+ [2 CREDITS IIDS 12C or 4 CREDITS Work Experience 12A]

Prerequisite: None

**Students completing this course will have the opportunity to receive 4 credits for Planning 10 and either 2 credits for 50 hours or 4 credits for 80 hours for Work Experience*

Planning 10 is a graduation requirement within the 2004 Graduation Program.

Through Planning 10, students explore the elements of Education and Careers, Personal Finances, Health and the Graduation Program (course requirements, exams, focus areas and the Graduation Transitions).

The aim of Planning 10 is to enable students to develop the skills, knowledge and attitude they need to become self-directed individuals who set goals, make thoughtful decisions, and take responsibility for pursuing their goals throughout life. Planning 10 provides relevant and experiential learning opportunities, helping students relate their learning in school to the demands of the working world and expectations of society. Integral to the Planning 10 Program is the integration of current technology and the learning environment provided. The delivery of Planning 10 promotes combining classes and utilizing a team of teachers and facilitators to encourage work in small or large groups, using the Career Resource Centre, computer lab, and regular classroom. The flexibility of the Enterprise model enables students every opportunity to explore possibilities and prepare for their futures.



Physical Education

Physical Education 10 CO-ED

[4 CREDITS - PE 10]

Prerequisite: PE 9

PE 10 is a year long course that runs every second day beside Enterprise 10. (Planning 10) Through participation in a variety of activities, students will develop a positive attitude towards active living in the pursuit of lifelong health and well-being. Activities will be selected from the movement categories of: Games, Individual and Dual Activities, Dance, Alternate Environment Activities, and Gymnastics. Emphasis is on developing a positive demonstration of efficient and effective movement skills and concepts in the five movement categories.

** Note: PE is a participation oriented course. To be successful, students must wear appropriate gym clothing and actively take part in all activities.

Physical Education 10 Leadership

[4 CREDITS - PE 10]

Prerequisite: P.E. 9, Application to P.E. Dept.

This year long program runs opposite Enterprise 10 and includes the requirements of P.E. 10. In addition, project oriented activities may require out-of-class time, and may encompass planning special events, powerpoint presentations, role modeling for other students, field trips, etc. Leadership students will display initiative, cooperation, and follow-through. A 3.00 GPA is recommended as some class time may be missed. Application forms are available at the P.E. office

Physical Education 11

[4 CREDITS - Grade 11]

Prerequisite: PE 10

Students will participate in a wide variety of activities including some 'life time' activities unavailable to junior students. The goal is that students will develop a positive attitude towards active living and will demonstrate a functional level of activity while gaining specific motor skills. This course is ideal for those senior students wishing a daily workout to help relieve the stress of academic study. Field trips will be an integral part of this course and will be charged on a pay-as-you-go basis. Evaluation will be primarily based on daily participation, but leadership and fitness are also factors affecting grades.



Physical Education 12

[4 CREDITS - Grade 12]

Prerequisite: PE 11

P.E. 12 offers opportunities for senior students to recreate and maintain fitness levels during their last year of secondary school. Similar to P.E. 11, its focus will be on participation and attendance.

Field trips will be an integral part of P.E. 12. The field trips will focus on "life time activities" and will expose the students to activities not available in junior classes. Field trips are additional costs and will be charged on a pay-as-you-go basis. Evaluation is primarily based on daily participation, but leadership, fitness, and successful completion of the CPR course are also components of student evaluation.

BAA Recreational Leadership 11:Intramural

[4 CREDITS - Grade 11 - Board Authorized Course]

Prerequisite: Permission of intramurals coordinator

This class will provide an opportunity for students to develop their leadership in a recreational setting. Students will be involved in event planning of both intra and extra-curricular activities. This includes learning to plan, organizing and implementing these events. Group management techniques will be explored as well as positive role modeling in the school and community.

BAA Superfit 11

[4 CREDITS - Grade 11-Board Authorized Course]

Prerequisite: None

This course will provide students with an opportunity to better their understanding of the importance of both health related and sport related components of fitness. This course is designed for students who are interested in improving their level of physical fitness. Students of all fitness levels will set individual goals and develop and maintain a personal fitness program. You do not need to be an athlete to be successful in this course - BUT YOU MUST BE MOTIVATED.

BAA Superfit 11 Girls

[4 CREDITS - Grade 11-Board Authorized Course]

Prerequisite: None

This course has been designed to offer female students a wide variety of personal programs and group experiences in the pursuit of a lifelong appreciation for exercise and healthy lifestyle. This course will be comprised of active classes catering to all fitness levels. Nutrition seminars will also be given.

BAA Student Leadership 12

[4 CREDITS - Grade 11 or 12]

Prerequisite: Permission of the P.E. Department Head

The most effective way to learn is to teach. Leadership 11 provides students with the opportunity to learn about teaching and learning. This course is designed for students to address the diversity of a given student population and model successful learning, behaviour and communication skills. This particular section will be Physical Education based and focus on organizational and behavioural patterns specific to the PE environment. Approval must be obtained by the PE department head before admission into this course.

Business Education & Computer Science (ICT)

Business Education 10: General

[4 CREDITS - Grade 10 -Applied Skills]

This course is a great introduction to business courses offered in grades 11 and 12. Not only is it designed to introduce you to the world of business, but you will learn about the role of business in our society and the way in which it impacts our everyday lives. With the use of computers and through various assignments, projects and presentations, you will learn about the following:

- Business communications: keyboarding development, business documents, business correspondence, researching and resolving business problems
- Economics: competition in the marketplace, supply and demand, economic development, production, resource allocation
- Entrepreneurship: starting a business (business plan), business ownership, research and innovation, attributes of an entrepreneur
- Finance: financial management, budgeting, personal investment, credit, currency and value of money
- Marketing: changing nature of marketing, marketing mix, marketing research, marketing plan

Students wishing to obtain a Business degree in University, or wishing to own and operate their own business in the future will find this course invaluable.

NOTE: Students that have received credit for Business Education 9 cannot receive credit for Business Education 10

Accounting 11

[4 CREDITS - Grade 11-Applied Skills]

Prerequisite: None

Software used - Simply Accounting.
Workbook required.

Accounting is a very important aspect in the world of business, as it tracks the money coming into a business and the money going out of a business. This course is designed to give an introduction to basic accounting concepts and principles.

Throughout the course you will be given opportunities to work with workbooks, MS Excel and Simply Accounting in order to learn the fundamentals of accounting. Specifically, you will learn how to:

- Explain the relationship among assets, liabilities, and owners equity
- Justify the use of accounts in business
- Demonstrate skill in recording transactions in a general journal and posting it to a ledger
- Demonstrate proficiency in using the double-entry accounting system
- Prepare reports using worksheets, post-closing trial balances, income statements, and balance sheets
- Develop the basic accounting equation from a balance sheet

This course will be beneficial to students who intend to study business at the post-secondary level, or who plan on owning their own business in the future.

Accounting 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Accounting 11 or permission of teacher

This course is a continuation of Accounting 11. Throughout the term students will be given opportunities to work with workbooks, MS Excel and Simply Accounting to continue their learning of the fundamentals of accounting using both an automated system and a manual system. At the end of the term, you will be able to:

- Prepare financial statements for various business ownership structures
- Understand cash control systems within a business
- Demonstrate proficiency in using cash control procedures
- Assess, choose and justify appropriate inventory accounting systems for a business
- Prepare a personal income tax return

This course is an introduction to post secondary accounting/business studies, and therefore it will be particularly beneficial to students who intend to study business at the post-secondary level, or who plan on owning their own company in the future.



Computer Studies 10

Information Technology Level 1

[4 CREDITS- Grade 10 - Applied Skills]

Prerequisite: None

British Columbia is becoming a highly computer-literate and “wired” society with a large percentage of businesses and households connected to the information super highway. This is an introductory course that helps students build a foundation of digital literacy skills necessary for success in a techno-logically driven society. Students will develop word processing, spreadsheet, desktop publishing, presentation software, and basic programming skills (HTML and Scratch). In addition, students will also learn to manage a computer by studying hardware configurations, software selection, operating system functions, networking, and safe computing practices. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and investigating the social impact of computer technologies, while developing an understanding of environmental and ethical issues related to the use of computers. This course is for both beginners and intermediate computer users.

Software used: MS Office 2007, Adobe Master Collection CS3, Google Sketchup, Windows Movie Maker, and Scratch.
NOTE: Students who have received credit for Info Tech 9 should select ICT 11.

ICT: Digital Media Development 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: It is recommended that students taking this course have previous experience with computers at the Grade 9/10 level.

Introductory course. Students will use HTML code and Action Script while: defining the stages of Digital Production; describing a variety of Digital Tools; analyzing the effectiveness of a desktop video production; constructing a complex document using a variety of page layout and graphic design concepts and tools; explaining the impact of digital animation on society; creating a plan for the development of web documents and web sites. Software covered in this course: Dreamweaver CS3, Fireworks CS3 and Flash CS3

ICT: Digital Media Development 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: ICT 11 is recommended.

Advanced course. Students will: incorporate advanced keying, layering, and nesting techniques into their desktop video productions; identify skills needed to work in video film and television production; create documents that demonstrate use of a variety of methods of photo re-touching and manipulation; develop a detailed plan that specifies the intended outcomes of a digital project; describe the importance of design elements in the creation and development of webpage templates; and collaborate with others to create unique web solutions.

Business Computer Applications 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

Students will:

1. Develop Level II touch keyboarding skills on alphanumeric keyboards. Students will be required to demonstrate correct keyboarding skills through drills and the use of All the Right Type for Windows.
2. Learn formatting techniques to create word-processing documents and assignments.
3. Examine communication skills required in society and technologies used in business.
4. Create assignments and business communications using various forms of media such as PowerPoint and Macromedia.
5. Look at the issue of copyright and the downloading/copying of material from the Internet.
6. Create regular and “E” resumes, business letters, spreadsheets and essays.
7. Identify search strategies, including unique keywords and phrases, to locate information using Internet search engines.
8. Prepare and deliver presentations using presentation graphics software that incorporates: Slide Formatting, Graphics, Sound.



Marketing 12

[4 CREDITS - Grade 12 or Applied Skills]

Google, Yahoo!, Microsoft; they are all successful businesses. What got them to where they are today? Marketing!! All successful businesses need to have an adequate understanding of marketing, in order to achieve success. This course will help you gain an understanding of the importance of marketing in relation to owning and running a successful business. You will learn how businesses conduct research and establish marketing strategies in order to achieve success on the local, national, and/or global scale. At the end of the term, will have an adequate understanding of:

- Basic Marketing Concepts: Importance of marketing to businesses, factors that influence how businesses operate, the role of the consumer in marketing and how marketing addresses consumer change/diversity
- Marketing Research: Elements involved in the research process, techniques used to conduct research, how information is analyzed/evaluated to the benefit of the business
- Marketing Strategies: Elements of the marketing mix, (the 4 Ps), strategies for different types of businesses, consumers, and geographic locations (international marketing)

This course will be particularly beneficial to students who intend to study business at the post-secondary level, plan on starting their own company in the future, or intend to pursue a career in the creative industry.

Fine Arts



Visual Arts Art 10: General

[4 CREDITS - Grade 10 -Fine Arts]

Prerequisite: None

Students will enhance their basic skills. Personal, social, cultural and historical contexts will be explored and students will experience a variety of basic areas of visual expression which may include 2 dimensional and 3 dimensional works.

Art Foundations 11

[4 CREDITS - Grade 11 - Fine Arts]

Prerequisite: None

Art Foundations provides students with a broad range of experiences in 2-D and 3-D visual arts. Creative expression and image-development will be explored through the use of artforms such as drawing, painting, sculpture and design. Art Foundations 11 offers an overview of the studio courses available and is a prerequisite for other visual arts courses.

Art Foundations 12

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Art Foundations 11

Art Foundations 12 is a portfolio preparation course which covers a broad range of art forms necessary for art school entry requirements. Students will be encouraged to explore a variety of creative expressions such as painting, drawing, printmaking or sculpture. The Elements and Principles of Design will be reviewed in a social, historical, cultural and personal context and students will focus on image-development.

Studio Arts 11: Drawing & Painting 11

[4 CREDITS - Fine Arts]

Prerequisite: None

This course will focus on drawing and painting using a variety of materials such as pastels, watercolour, and acrylic paint. Projects will challenge students to develop their creative imagery and critical thinking skills while making personally meaningful work.

Studio Arts 12: Drawing & Painting 12

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Drawing & Painting 11 or Art Foundations 11

This studio course will develop students' knowledge and skills as they apply to drawing and painting. Students will increase their competence in 2-dimension visual expression. Projects will challenge students to develop their creative imagery and critical thinking skills. This course will provide students with excellent preparation for art school admissions.

Studio Arts 11: Ceramics & Sculpture 11

[4 CREDITS - Grade 11 - Fine Arts]

Prerequisite: None

The student who wishes to specialize in 3-dimensional work will enjoy this course. This studio course focuses on ceramics and sculpture and the processes and techniques which apply to the creation of high relief and 3-dimensional art forms. Visual Elements and Principles of Design are investigated through the making of 3-dimensional projects with materials which may include clay, wire, or wood.

Studio Arts 12: Ceramics & Sculpture 12

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Art Foundations 11 or Ceramics and Sculpture 11

Students will design 3 dimensional projects while developing skills in assemblage or construction, throwing on the wheel or hand building in clay. Assignments will focus on the development of personal images in a variety of materials and students will investigate artists and artwork in different contexts.

Drama 10: General

[4 CREDITS - Grade 10 - Fine Arts]

Prerequisite: None

Drama 10 is a continuation of Drama 9. Students will engage in critical thinking and problem-solving while working on projects focused on speech, movement, scene building and script work. The first time drama student should not be scared away; there is a place for everyone in this high energy course.

Theatre Performance 11: Acting

[4 CREDITS - Grade 11 - Fine Arts]

Prerequisite: None

Calling all actors! Theatre Performance 11: Acting is a course in just that - Performance and Acting. Students will work on improvisation skills, developing the voice, movement on stage, character development and stage etiquette. This course will

expose the student to a variety of different genres and studio style performances.



Theatre Performance 12: Acting

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Theatre Performance 11: Acting

Encore! Encore! This course is a continuation of the previous level. The student will be introduced to increasingly more difficult work. Advanced concepts such as aesthetics of the performance, critical analysis of script and character, objective and motivation, and theatre styles will be introduced to the performance.

Theatre Production 11

[4 CREDITS - Grade 11 - Fine Arts]

Prerequisite: Acting (TPA 11) AND permission of the theatre director.

Theatre Production 11 explores behind the scenes of theatre performances. Students will be exposed to script analysis, the many production roles, stage design, design techniques and the impact they have on performance. Students will work on set design and creating models, light and sound production, stage management, makeup and special effects. (It is recommended that students have recent experience in drama or community theatre.)

Theatre Production 12: Technical Theatre

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Acting (TPA 12) AND permission of the theatre director

In this advanced level course students will explore technical elements of a theatre production, including: costume design, lighting, sound, and stage make-up. Students will be involved in the production of performances for live audiences.

Theatre Production 12: Theatre Management

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Theatre Production 11 AND permission of the theatre director

In this advanced level course students will be involved in the direction of a performance for a live audience. Students will explore directorial issues including ethics, culture, historical influences, problem solving and production challenges. Emphasis will be placed upon the production team, theatre etiquette and leadership roles.

"X" BLOCK Theatre Production 11/12: Theatre Management Theatre Performance 11/12: Acting

[4 CREDITS for ONE course only]

This class will run after school on Mondays, Wednesdays and every second Thursday. Regular attendance is mandatory.

Concert Choir 10

[4 CREDITS- Grade 10 - Fine Arts]

Choral Music 11: Concert Choir

[4 CREDITS- Grade 11 - Fine Arts]

Choral Music 12: Concert Choir

[4 CREDITS- Grade 12 or Fine Arts]

No prerequisite required. Students will learn the basics of vocal technique, ensemble and music theory while being exposed to choral music from a wide variety of style and expressive content. Students will be introduced to basic techniques of sound reinforcement and improvisation, and be encouraged and helped to develop as soloists. Students will take part in Music Department concerts and appropriate District events.

Evaluation will be based on class participation, attendance at all scheduled events, theory and singing tests.

Concert Band 10

[4 CREDITS- Grade 10 - Fine Arts]

Instrumental Music 11: Concert Band

[4 CREDITS- Grade 11 - Fine Arts]

Instrumental Music 12: Concert Band

[4 CREDITS- Grade 12 or Fine Arts]

Prerequisite: Band 9 or permission of instructor.

Students will pursue band music at a high level. There will be a unit in Chamber Music, and there will be a field experience in a music-career oriented area. Students will participate in Music Department concerts. Evaluation will be based on class participation, attendance at all scheduled events, technical improvement, and music theory quizzes.

Each student is asked to provide their own instrument, but in some cases, instruments can be supplied through the school. (This is usually the case for the larger instruments and the percussion instruments and amplifiers).



"X" BLOCK

Instrumental Music: Jazz Band 9-12

[4 CREDITS - Fine Arts, either Grade 10, 11 OR 12]

This class will run **before** school, two or three times each week.

Regular attendance is mandatory.

Students will engage in intensive development of instrumental skills and study of theory and literature of Jazz. As well as Music Department concerts, there will be an intensive schedule of concert and competitive appearances. Evaluation will be based on class participation, attendance at all scheduled events, technical improvement, and jazz theory quizzes.



Drama: Film and Television 11

[4 CREDITS - Grade 11 - Fine Arts]

Prerequisite: Permission of instructor - by application

This course introduces students to the field of television production. The course will focus on the fundamentals of video camera technique, television formats, the use of storyboards and scripting, principles of lighting and audio production, as well as techniques for live broadcasting. Students will be introduced to computer digital video editing techniques and will have an opportunity to work with our Adobe Premiere system. The class will also be responsible for a number of school based broadcasts and students will learn about the combining of technology and teamwork as a part of an FPTV camera crew.

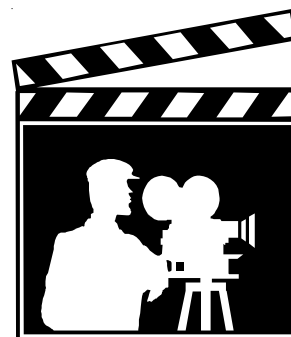


Drama: Film and Television 12

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Film and Television 11 and permission of instructor

Film and television students in the Grade 12 course will build on the fundamental skills and principles developed in the Film and Television 11 course. Advanced video journalism and documentary projects will be undertaken and students at the grade 12 level will also take on a mentoring role helping members of the grade 11 class in the development of basic camera techniques. Students at the grade 12 level will build upon editing skills developed previously and will utilize advanced digital editing techniques in the creation of their projects.



BAA Yearbook 11

[4 CREDITS - Grade 11 - Fine Arts]

BAA Yearbook 12

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Yearbook 11.

This course will provide a variety of skills in graphics and commercial design as well as develop students' writing skills to produce a professional product. This course focuses on creating the school's yearbook. Students will learn the basics of layout design, photography, journalistic writing, independent project organization and how to work to deadlines in a challenging environment where multitasking is fundamental.

Due to the nature of creating a year long memory, timelines and deadlines, second semester yearbook is by invitation only. This course is usually reserved for grade 12s who have previously taken Yearbook.



PHOTOGRAPHY

Visual Arts 10: Media Arts Photography

[4 CREDITS - Grade 10 - Fine Arts]

Prerequisite: Open to all Grade 10 students. Access to a digital camera is recommended.

This Level I course is designed for students with no previous experience in photography. It is an introduction to digital photography, Photoshop and black and white photography. Photo composition techniques, design elements and principles will be used to create personally meaningful images. Basic skills using Photoshop to enhance digital images will be explored. Technical aspects of the camera will be studied as well as digital workflow and print making. An introduction to the history of photography and important figures in photography will be part of the course. Social Media has become an essential tool for today's photographer. Twitter, WordPress, Flickr, and Facebook for photographers is introduced. Evaluation will be based on participation, assignments, projects and written/practical tests.

It is expected that students will be required to make time out of school to take photos for projects. Students will go on a field trip to attend a gallery exhibit and spend part of the day on a photo shoot to gather images for a project. It is an advantage to have access to a digital camera, preferably a single lens reflex camera which has f-stops, shutter speeds and focus control, as the school has a limited supply.

Visual Arts: Media Arts 11 Photography and Digital Imaging

[4 CREDITS - Grade 11 - Fine Arts]

Prerequisite: Open to all Grade 11 and 12 students. Access to a digital camera is recommended. A DSLR camera is preferred.

This level II course will further refine and develop the skills and techniques introduced in Level 1. Students will explore the world of colour and B&W photography in greater detail, as well as other elements such as combining image and type, photomontage, image manipulation and distortion, image restoration, colouring and tinting, special effect lighting and advanced Photoshop. RAW image capture and editing, image naming conventions, cataloguing and archiving will also be covered. Students will also develop the ability to set up and use scanners and printers, and prepare projects for printing. The course will go deeper into the technical aspects of the camera, flash and other hardware. Students will develop a web presence and promote their photography using a variety of social media. We will look at some of the fascinating technical, practical and commercial aspects of photography today, and apply many of these ideas into our original and creative visual work. Evaluation will be based on participation, assignments, projects and written/practical tests. It is expected that students will be required to make time out of school to take photos for projects. Students will go on a field trip to attend a gallery exhibit and spend part of the day on a photo shoot to gather images for a project. It is an advantage to have access to a digital camera, preferably a single lens reflex camera which has f-stops, shutter speeds and focus control, as the school has a limited supply.

Visual Arts: Media Arts 12: Photography

[4 CREDITS- Grade 12 or Fine Arts]

Prerequisite: VAMT11 - Photography & Digital Imaging 11. Access to a digital camera is essential. A DSLR camera is preferred

This Level III course is project-based, focusing on reinforcing and making connections between concepts of photocomposition and design, software and camera proficiency, and developing powerful photo design solutions. At this level students are expected to be self-motivated and work independently to develop their own unique personal style. Assignments will be self-directed and can cover a number of topics, such as: landscape photography, photojournalism, people and children, event and concert photography, advertising and product photography, fashion photography as well as night and time exposures. Focus will be more on client-based design projects for the “real world”. Evaluation will be based on participation, assignments, projects and the portfolio. It is expected that students will use significant time out of school to take photos for projects and the portfolio. Students will go on a field trip to attend a gallery exhibit and spend part of the day on a photo shoot to gather images for a project. It is essential to have access to a digital camera, and preferably a single lens reflex camera which has f-stops, shutter speeds and focus control, as the school has a limited supply.

This course is designed for those wanting to pursue the field of photography at a post-secondary institution.



Dance

Dance 10: Performance

[4 CREDITS- Grade 10 -Fine Arts]

Prerequisite: Dance 9 recommended

This course extends the knowledge learned in Dance 9. Technique becomes more challenging, as there is more emphasis on skills and terminology advances with skill level. Students will perfect elements of hip-hop, jazz, basic ballet, musical theatre and cultural dances and perform them in a variety of dance combinations. Students will also work in small groups to choreograph routines using these various dance forms. Finally, students will learn the elements of stagecraft including costumes, props and event promotion. Developing teamwork is essential to success in this course.

Dance 10 Boys: Break Pop Hip Hop

[4 CREDITS- Grade 10 - Fine Arts]

Prerequisite: Grade 9 BPHH recommended

Dance 11 Boys: Break Pop Hip Hop

[4 CREDITS- Grade 11 - Fine Arts]

Prerequisite: Grade 10 BPHH recommended

Dance 12 Boys: Break Pop Hip Hop

[4 CREDITS- Grade 12 or Fine Arts]

Prerequisite: Grade 11 BPHH recommended

This course provides an opportunity for boys to perfect dance forms such as breaking, popping, locking and hip-hop. Students will learn more advanced techniques and terminology that are universal to these dance forms. Students will also master choreographed routines and experiment with their own creative ideas while combining these dance forms. Finally, students will showcase their learning in a variety of settings in the school and community. Developing teamwork is essential to success in this course.



Dance: Performance 11

Dance: Choreography 11

[4 CREDITS - Grade 11 or Fine Arts]

Dance: Performance 12

Dance: Choreography 12

[4 CREDITS - Grade 12 or Fine Arts]

Prerequisite: Dance 9/10 recommended.

Students should have taken previous dance classes offered at the school or have recent experience from the community. Students will be expected to work with partners to create combinations that can be shared with the class. Students will gain experience as choreographers and dancers. Many dance forms will be mastered such as hip-hop, jazz, ballet, musical theatre, ballroom, break dance and cultural dances. Students will perform routines for large audiences and may compete in local dance events. Students will view and discuss various performances and compare styles. Finally, skills relating to stagecraft, managing sales and production will be developed. Developing teamwork is essential to success in this course.



Home Economics

Textiles Studies 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None

Grade 10 students who have credit for Textiles 9 should select Textiles 11.

Students in this course will have the opportunity to construct various garments using the latest technology. Students will learn how to use a Serger, Computer embroidery machine, rotary cutter, Elna Press and Blind hemmer. Commercial patterns will be used for garment construction. Students will learn ways to recycle clothing and construct a garment or toy for an infant. Exploration of textile related occupations and careers such as fashion marketing, fashion design, fashion production, textile crafts, and interior design will also be covered.

Textiles 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

Showcase your stitching and design talents. Personalize your wardrobe through wise fashion choices. Choose your own patterns as abilities and experiences are varied. Use elements and principles of design to produce garments that complement your body type. Learn to use the latest in technology to make wearable clothing and/or decorative accessories for your bedroom. Skills learned may be applied to careers in fashion marketing, merchandising, and entrepreneurial design as well as everyday living.

Fine Arts & Applied Skills 11: Textile Arts & Crafts

[2 CREDITS - Grade 11 - Fine Arts and 2 CREDITS - Applied Skills]

Prerequisite: None (Open to Grades 10, 11 and 12)

This is an opportunity to develop your artistic talents to create “one-of-a-kind” projects. Techniques such as quilting, weaving, applique, machine embroidery, fabric painting, tole painting will be explored.

Textiles 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Recommend Textile Studies 11 or Advanced Sewing Skills

Students will produce textile items using challenging fabrics and/or advanced sewing skills. This course is not for the beginner. It is an advanced course for the adventurous sewer. Take advantage of the computerized embroidery sewing machine to produce design and embellishments on textile products. Learn to work with new textile fibers. A highly individualized approach will allow several choices regarding projects. Skills learned can be applied to careers in fashion design, marketing, and fashion merchandising. Students will explore the history of fashion and costume.

BAA Fashion Design Tailoring 12

[4 CREDITS - Grade 12 Board Authorized Course]

Prerequisite: Textiles 12

This course has been developed to support and encourage students to express themselves creatively through the medium of textiles, in the realm of higher level construction techniques used in tailoring. This course will cover everything from using a commercial pattern, personalizing the fit to construction of the finished product to meet industry standards. Students will examine ready to wear garments in order to meet these professional standards. The final products produced from this course may be added to the student’s portfolio of post secondary applications. Kwantlen College requires student have a jacket / coat in their portfolio.

BAA Fashion Design & Pattern Making 11

[4 CREDITS - Grade 11 Board Authorized Course]

Recommended 73% or higher in Tex 11

Students entering Fashion Design must have a solid background and understanding of garment construction. If you love the latest in fashion and enjoy creating your own clothing, then this is the course for you. This is a highly individualized course that provides you with the opportunity to learn to draft your own patterns, work with specialty or difficult fabrics. Learn about the fashion industry and some possible career opportunities in the area of fashion design. Upon completion of this course, students will have a portfolio which is essential for admission into any fashion design/merchandizing post-secondary institution.



Foods and Nutrition 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None. Students who have taken Foods 9 should select Foods 11

The focus of this course is to plan and prepare healthy dishes and meals. Students will have the opportunity to prepare multi course meals for breakfast, lunch and dinner. Students will explore health concerns associated with unhealthy eating patterns. Learn how to select reliable and healthy recipes and commercial food products. Evaluation for this course will be based on labs, written assignments, quizzes, projects and guest speaker demonstrations.

Classroom activities provide students with opportunities to: prepare food, analyze food choices, and learn how to select reliable healthy recipes and commercial food products.

The second half of the course will focus on textiles. Students will create three textile items using commercial patterns. Evaluation will be based on labs, projects and in-class assignments.

Foods and Nutrition 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

If you would like to advance your culinary skills and learn how to prepare delicious recipes this is the course for you. Students will learn how to prepare dishes that will be as appealing to the senses as to the finances. Cooking for yourself in a creative and nutritional manner is one of the many themes which will be touched upon. Celebrations play a major role in our lives and the preparation of exciting dishes for these events will be researched and created. Evaluation is based on practical labs, written assignments, oral presentations, unit tests, and major projects.

Food and Nutrition 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Food Studies 11 recommended.

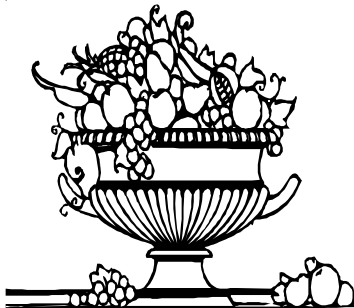
Foods from beautiful British Columbia to the farthest reaches of the global community are topics covered in Food Studies 12. If your heritage and the background of others piques your interest perhaps looking at these topics from a new and exciting perspective will satisfy your curiosity. Current issues in foods and health (genetically engineered foods) will be evaluated. Evaluation is based on practical labs, written assignments, oral presentations, unit tests, and major projects.

BAA Food Art 11

[4 CREDITS - Grade 11 - Board Authorized Course]

Prerequisite: None

Express yourself through the art of food! “Create and bake” are the operative words for Food Art 11. Learn how to apply the elements and principles of design to food. Try your hand at cake decorating, create a gingerbread house or village, construct fabulous Christmas or Easter gift baskets, practice fancy pastry making and bread creations, experience the pleasure of creating hand painted chocolates and enjoy the fun of candy making. Get inspired with the use of garnish, food styling and food presentation or enjoy buffet experiences! Students considering a career in the Hospitality foods industry will find this course invaluable.



Family Studies 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None. Open to students in Grades 10-12)

This course will examine the following topics:

- A. Child Development & Parenting
- B. Adolescent Development
- C. Interpersonal & family relationships

Family Studies 11 will give you an opportunity to become a parent overnight with a real life Baby Think It Over doll as you quickly experience the demands of child rearing with the swipe of your sensor bracelet.

Family Studies 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: None

Family Studies 12 is open to students in grades 10, 11 and 12

This course will examine the following topics:

- A. Families in Society
- B. Adulthood
- C. Housing and Environment

This course will provide you with an opportunity to look at the world around you and examine the relationships you have within it. We will discuss various topics such as types of families, lifestyles options, poverty, the media and current events. This course prepares you to enter the adult world and get the opportunities to make choices about moving out and the costs related to renting and setting up an apartment.

BAA Psychology 11

[4 CREDITS - Board Authorized Course]

Prerequisite: None

This course uses a psychological perspective to provide you with an opportunity to explore social issues that exist in your personal lives, your community and in society. We will examine human behaviour, mental processes and be exposed to several psychological theories relating to adolescents and young adults. This course is an excellent choice if you are planning to enrol in post-secondary Psychology courses or if you are interested in understanding yourself and the world around you better. This course will include sections on theories of personality, gender differences, adolescence, motivation and emotion as well as look at the relationship between the brain, body and our behaviour.



Modern Languages



French 10

[4 CREDITS - Grade 10]

Prerequisite: French 9

Students will continue to develop their oral and written abilities in French. This course gives students the opportunity to use a range of useful vocabulary in oral and written form. Listening, speaking, reading and writing skills are further developed.

French 11

[4 CREDITS - Grade 11]

Prerequisite: French 10

Students will interact with growing confidence in French and will be able to use French resources for research. Listening, speaking, reading and writing skills are further developed. There is also an increased emphasis on reading a variety of works. Successful completion of French 11 provides the minimum language requirement needed for most universities.

French 12

[4 CREDITS - Grade 12]

Prerequisite: French 11

This course is the culmination of the study of French language and culture at the secondary level. More complex facets of language and literature are introduced. French culture is explored in greater detail.



Spanish 10

[4 CREDITS - Grade 10]

Prerequisite: Spanish 9

Spanish 10 expands and builds upon the material already covered in Spanish 9. Students will further develop their abilities to communicate Spanish effectively in oral and written form on a number of topics.

Introductory Spanish 11

[4 CREDITS - Grade 11]

Prerequisite: None

This course is the equivalent of Spanish 9 and 10 combined. It is a demanding, fast-paced course covering two years of regular program work in one year and is intended for students who have no background in the language. The goal of this course is to develop communication skills (speaking, understanding, reading and writing) in Spanish. The course also aims to give the students some insight into the culture and history of Spanish-speaking countries. Successful completion of this course qualifies a student to enter Spanish 11.

Spanish 11

[4 CREDITS - Grade 11]

Prerequisite: Spanish 10 or Beginner's Spanish 11

Spanish 11 will strengthen and build on the skills developed in Spanish 9 and 10 or Beginner's Spanish 11. Listening, speaking, reading and writing skills are further developed. Awareness of Hispanic culture and history will continue to be developed. Successful completion of Spanish 11 provides the minimum language entrance requirement needed for most university programs.

NOTE: Students should consider taking Spanish 11 and 12 in the same year to allow for optimum continuity in their language program. Students should consult with the Spanish teachers or counsellors.

Spanish 12

[4 CREDITS - Grade 12]

Prerequisite: Spanish 11

This is an advanced Spanish language course intended to refine the skills developed in the previous 3 levels of Spanish. Hispanic culture and literature will be explored in greater depth.

Hospitality



The Tourism industry in BC is expected to experience a profound shortage of qualified employees. The learning outcomes in Tourism 11 and 12 are written to ensure students make a direct transition to either the world of work in any of the five industry sectors, or to Post Secondary Education.

Tourism 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

Tourism 11 is intended to introduce students to the five industry sectors of Accommodation, Food & Beverage services, Transportation, Recreation & Entertainment and Travel Services.

Units of study include the following:

- A Introduction to Tourism Industry
- B Positive Attitudes of the Tourism Professional
- C Transferrable Skills of the Tourism Professional
 - Communication Skills
 - Computer and Other Technology Skills
 - Managing Information Skills
 - Thinking Skills
 - Working with others
- D Preparing to Succeed in the Tourism Industry
 - Job Search
 - Charting a Career Path

Students may choose to pay a certification fee for Food Safe Basic, Superhost Fundamentals, and Superhost Sales Powered by Service.

Tourism 12

[4 CREDITS - Grade 12 - Applied Skills]

Prerequisite: Tourism 11 strongly recommended

Tourism 12 is the logical extension of Tourism 11. Tourism 12 should be viewed as the application/practical course and is intended to complete the preparation of graduates either for successful integration into employment or for transition to college programs. A 30-hour module entitled Tourism Industry Experience has been included in Tourism 12. Units of study include:

- A Travel Planning
 - Tourist Destinations
 - Tourism Products
 - First Nations Role in BC's tourism Industry
- B Tourism Operations
- C The Business of Tourism
- D Tourism Industry Experience

Students may choose to pay for certification in Superhost Serving Customers with a disability, Superhost Japanese Expectations, and Serving It Right.

Cafeteria Training 11/ BAA Culinary Training 11

[4 CREDITS - Grade 11 or 12 - Applied Skills]

Prerequisite: Recommended previous course work done in Foods 9 and/or 10.

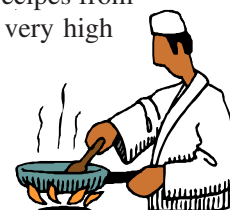
Cafeteria Training is an introductory course in Professional Cook Training with the main focus being the preparation of daily lunch for the school and learning how to work in a professional kitchen. Students must have an excellent attendance record as daily on-time attendance is crucial for success. Students will be exposed to different types of food preparation techniques and cooking methods and will learn how to make recipes for large quantities of people. They must be able to lift heavy stockpots, work around hot stoves and ovens and not be afraid to work with sharp knives. They must also be prepared to work closely with other students and to work together as teams. Personal hygiene and personal grooming are very important as well as bringing a clean chef's coat (supplied at cost to student) daily to class. Topics covered include the making of sandwiches, salads, soups, stocks, main courses, baking, desserts, washing and sanitizing pots and pans and inventory and receiving. Safety and theory play an important role in this course; students must be able to carry out instructions and communicate effectively with the teacher as well as other students in the program.

Cafeteria Training 12/ BAA Culinary Training 12

[4 CREDITS - Grade 12 - Applied Skills]

Prerequisite: Successful completion of Cook Training 11A, 11B, or 11C and permission from Chef Instructor

Cafeteria Training 12 is a subsequent course in Culinary Arts that expose students to more in-depth training in the Professional Cook Training Industry. Students are expected to show more leadership, have a better than average attendance and on-time record and be prepared to assist new students in entry level courses. They are also expected to know how to read recipes, perform simple and continuous duties and be able to work independently with little or no supervision after each task has been demonstrated to them. Students are marked more for their leadership and culinary skills and will be expected to assist the chef in one of several different types of before-school or after-school catering events held at the school. Besides doing all of the entry level tasks explained above for CKT 11A, 11B, and 11C, these students will also be able to convert recipes from metric to imperial and perform at a very high level in the kitchen.



Technology Education

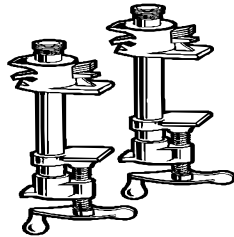
Electronics Technology 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None

This course includes both theoretical and practical components and is a primer for one of the first semester courses in any post-secondary Engineering Program. Students will build two of the following projects:

Electronic Siren
Variable DC Power Supply
Two-Minute Warning (Tormentor)
Space Probe
110 Volt Strobe Light



Students will learn to solve basic series and parallel circuits and variations of series-parallel circuits using Ohm's law and Kirchoff's laws, as well as the fundamentals of power conversion. They will have an opportunity to become familiar with the use and care of such test equipment as the digital multimeter, oscilloscope and audio function generator. Students will also learn the basics of Multisim computer circuit modeling. Assessment is based on tests and quizzes, along with practical work / work habits. Take it for fun or with an eye to a career.

Electronics 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None, Electronics 9 Recommended

The main objective of the Electronics courses is to offer a combination of knowledge and "hands-on" skills that will prove valuable over a lifetime as well as opening doors to a wide variety of career options open to both males and females through post-secondary. The areas of focus will include a blending of safety, use and care of tools and equipment, circuit theory as it applies to DC, AC analog circuits or systems. Emphasis will be placed on the application of theory to design and (where applicable) assemble, test and trouble-shoot various teacher/student-selected labs or projects. Evaluation is based on quizzes and project/lab work. It also may include one or more of the following projects: Strobe light, Colour Organ, 100-Watt Stereo Amplifier.

Electronics 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Electronics 11

Students will learn to solve more complex circuits using Ohm's law and Kirchoff's current and voltage laws. They will also further their knowledge of design and development processes of printed circuit boards. Theoretical work will build on areas of study covered in Electronics 11, including a component in computer programming. Evaluation is based on project work and labs, tests and quizzes. Projects will vary and may include bringing a device from home for repairs.

Electronics 12: Digital Systems

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: EL 11 Recommended

This is an enriched Electronics 11 program, with the same foundational materials, but with an expanded component in digital circuits. Theory will cover the basics of digital systems in solid-state circuitry and digital control systems. Evaluation is based on quizzes and projects/labs.

Electronics 12: Robotics

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: EL 11 Recommended

Electronics 12R is a course in advanced electronics, in which students will further develop their skills and knowledge in electronics, including radio control, and electro-mechanics which will be applied directly to robotics. The course will focus on Parallax Basic and PIC Basic as programming languages to introduce students to AI.

Students will have the option of working on self-directed projects, or projects made available by the teacher.

POSSIBLE CAREER PATHS

- * Electrician
- * Automotive Computer Systems Technician
- * Consumer goods testing (CSA)
- * Medical equipment sales, service and training
- * Computer Network Administrator or engineer
- * NavCan (repair and maintenance of airport navigational/ security equipment)
- * Robotics and Automation specialist
- * Avionics (aircraft electronics)
- * Power Engineer

BAA Animation 10

[4 CREDITS - Grade 10 - Board Authorized Course]

Prerequisite: Open to all Grade 10 students.

This course introduces students to the world of Computer Graphic (CG) Arts. Students will be involved with introductory HTML, digital art, 2D Anime & animation, 3D modeling, texturing, lighting, and animation. These techniques form the framework of study for the course. This is a lab-oriented course offering students a practical, “hands-on” approach to problem solving, experimenting, creating, designing and building within the area of CG Arts. Based on computers, students will learn concepts of planning and designing storyboards, creating individual projects using 2D graphic software, Anime Studio Pro, and industry standard Maya 3D animation software. It is recommended for students wishing to take further courses in animation and computer graphic arts.

BAA Animation 11

[4 CREDITS - Grade 11 - Board Authorized Course]

Prerequisite: None. Open to all Grade 11 and 12 students.

The process of creating computer animation is both an artistic and technical activity. The creation of an animation involves students in a design (problem solving) process, an artistic process, and a technical process. This is a self-paced course based on computers, using Photoshop and industry standard Maya 3D software. Students will learn concepts of planning and designing storyboards, 3D modeling, rigging, texturing, lighting, animating, special effects and output rendering. They will create individual projects using 2D graphic and 3D animation software. This course is oriented toward students interested in computer animation and presentation graphics. It is the required basic for further studies in CG Arts, and the prerequisite for Animation 12.



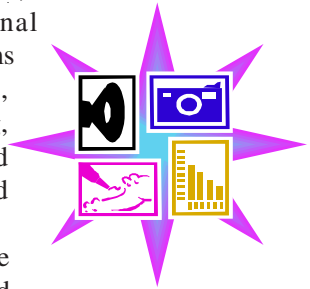
BAA Animation 12

[4 CREDITS - Grade 12 - Board Authorized Course]

Prerequisite: Open to all Grade 11 and 12 students with Animation 11 or proficiency in Adobe Photoshop, storyboarding, modeling, rigging and animating with Autodesk Maya.

This course will further refine and develop the skills and techniques introduced in Animation 11. In Animation 12 students will be using AutoDesk Maya as a tool for creating 3D models, texturing models, and animating 3D projects. The course will focus on 3D concepts and not specifically about the Maya software. The goal is that students will be able to gain experience in 3D design software that allows NURBS and polygonal modeling, texturing, and timeline animation. Topics covered include object and environment modeling, modeling a 3D character, basic lighting techniques, polygonal modeling techniques, creating forms from curves, applying textures, creating custom textures, rigging, keyframed animation and rendering for output and presentation.

About 60% of the course will be independent or team related projects. This specialized curriculum is designed to serve the direction and needs of students who would like to devote their senior years to the CG Arts. It is the required prerequisite for Advanced Studies in CG Arts 12.



CG Arts: Animation 12

[4 CREDITS - Grade 12 - Applied Skills]

Prerequisite: Animation 12 or very good proficiency in Adobe Photoshop, storyboarding, modeling, rigging, animating, texturing, lighting and rendering with Alias Maya. Open to all Grade 11 and 12 students with prerequisite.

This is an advanced course in CG Arts. The course is a directed study program where students build on previous learning from the prerequisite animation courses and the areas of Technology Education, Information Technology, and the Fine Arts. Students will primarily be working on individually selected special topics and presentation animations. Group work is encouraged where large projects are undertaken. Further studies with Maya and special effects are included along with advanced video editing and output. Students will produce samples of their work, which will serve as portfolio examples while they explore career opportunities in the field. This course is oriented toward those interested in careers in the CG Arts. It is a required prerequisite for Further Studies in CG Arts 12.

Drafting & Engineering

Drafting & Design 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None.

This introductory course gives students the opportunity to learn various drafting and design processes that are being used in the Manufacturing and Construction Industry today. Many areas will be covered, including sketching, drawing, model building, and CNC, using both hand drafting and CAD software. Students will be exposed to both 2D and 3D drawing and will learn both Architectural and Engineering drawing formats. Students who take this course will acquire a useful set of skills that can be applied to many career and life choices.

Drafting & Design 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

This course gives students the opportunity to learn various Drafting and Design processes that are being used in the Manufacturing and Construction Industry today. Students will learn both architectural and engineering graphic formats. They will start with hand drafting skills, then move onto 2D computer software (AutoCAD) and finally on to 3D computer software to complete the various course projects and activities. The skills learned in this course will be invaluable to those who intend to pursue design and drawing related careers such as engineering, architecture, and industrial design. Students will also have the option of entering the Kwantlen College / Surrey School District Drafting Coop to earn dual credits.

Drafting/Design 12: Engineering / Mechanical

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Drafting & Design 11 is recommended

This advanced course provides students who have demonstrated proficiency and interest in Engineering/Mechanical drafting with the opportunity to expand their knowledge base in this area of drafting and design. Student projects will include Advanced Machine Part design and graphic representation using a combination of Orthographic, Section, Auxiliary, and Assembly drawing formats. All drawings will be produced on a 3D CAD computer system (Autodesk Inventor).

Drafting/Design 12: Architectural / Habitat

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Drafting & Design 11 is recommended

This advanced course provides students who have demonstrated proficiency and interest in Architectural drafting and Habitat design with the opportunity to expand their knowledge base in this area. Students will study Residential House Design & Construction. They will develop a set of plans for a residential home and may build a model of the exterior of that home. All drawings will be produced on a 3D CAD computer system (Autodesk REVIT).

Engineering & Design 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None

This course is an introduction to Engineering and Design for students considering a career as Engineers or Industrial Designers. The emphasis of this course is on developing problem-solving skills in conjunction with a Design Process. In the Design Process, students will research, draw, construct and evaluate their projects. Students will spend approximately half their time designing and drafting and the other half building their projects using a variety of materials and hand and machine tools. Projects undertaken in the course may include Model Planes, Automotive Design and CO₂ cars, Structural Engineering, and CAD & CNC manufacturing.

Engineering & Design 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

Engineering & Design 11 is designed for students going into Post Secondary University Engineering programs. This course will provide students with a hands-on opportunity to design and create products. Students will follow an industrial design process to research, design, draw and construct their projects using a variety of tools and materials. Students will spend approximately half their time designing and drafting and the other half building their projects.

Engineering & Design 11 will help students acquire the hand tool skills and knowledge needed to pursue post secondary training for careers as technologists, technicians, architects, engineers, and industrial designers. Projects undertaken in this course may include CAD and CNC manufacture, Aeronautics, Automotive Design, Marine Design, Robotics or “MIT” style engineering challenges.

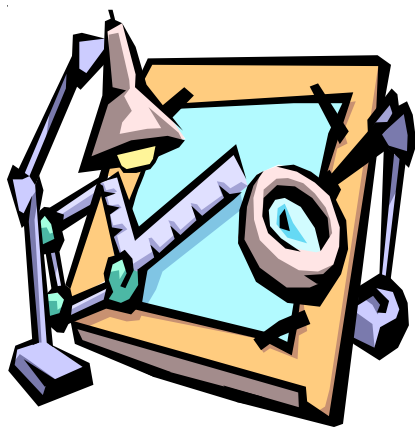
Engineering & Design 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Industrial Design 11

Engineering & Design 12 is designed for students going into Post Secondary University Engineering programs. This course is an advanced extension of Engineering & Design 11. Students will use Industrial Design and Engineering skills to design and build teacher and/or student directed projects.

Engineering & Design 12 will help students acquire the hand tool skills and knowledge needed to pursue post secondary training for careers as technologists, technicians, architects, engineers, and industrial designers. Project topics may include Robotics, Aviation, Structural Engineering, Architecture, Automotive Design and CAD and CNC manufacturing.



Automotive Technology

The main objective of the Automotive courses is to offer a combination of knowledge and “hands-on” skills that will prove valuable over a lifetime as well as opening doors to a wide variety of career options for both males and females, through post-secondary. The areas of focus will include a blending of safety, measurement, theory of mechanical and electronic operation, tools and equipment, and procedures with an emphasis on the diagnosis, maintenance and repair of modern automobiles and other motorized vehicles. Students will apply the acquired knowledge and skills in the performance of teacher/student-selected labs and tasks.

Automotive Technology 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None but a mechanical aptitude is an asset.

Course Content:

- Safety
- Shop Practices
- Basic Tools and Equipment
- Accessing Repair/Maintenance Data Information
- Tires and Wheels
- Brake Systems
- Steering Systems and Alignment
- Suspension and Chassis
- Engines and Sub-Systems
- May include a welding component

Automotive Technology 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Automotive Technology 11

Note: Successful completion will result in Advance Placement at Kwantlen College.

Course Content:

- Safety
- Shop Practices
- Basic Tools and Equipment
- Accessing Repair/Maintenance Data Information
- Electrical Theory
- Charging and Electrical System
- Starting System
- Body Electrical
- Transmission Principles
- Manual and Automatic Transmissions/
Transaxles – overview
- Differentials and Drive Lines – overview
- Tune-Up and Emission Control Systems – overview

Woodworking

Woodwork 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None

This course is an introduction to woodworking. Students will become familiar with the safe use of tools and machines, and the craft of woodworking through teacher-directed projects and by projects that you choose and design yourself. The class will cover basic joinery and woodworking techniques along with an introductory unit using our computerized CNC router. Projects may include wood carving, Intarsia, Cutting Boards, Jewelry Boxes, Clocks, Wood Bowls, and CNC sign making.

Carpentry & Joinery 11

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

This is an introduction to woodworking. Students will become familiar with the safe use of tools and machines and the craft of Woodworking through teacher directed projects and by projects that you choose and design yourself. The objective of this course is to offer a combination of knowledge and 'hand-tool' skills that will prove valuable over a lifetime as well as opening doors to a variety of career options. The class will cover intermediate woodworking techniques and design skills. Projects may include wood carving, intarsia, cutting boards, jewelry boxes, clocks, wood bowl turning, furniture, chests and an introductory / intermediate unit on our computerized CNC router.

Carpentry & Joinery 12

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Carpentry and Joinery 11

The main objective of this course is to offer an advanced combination of previously taught knowledge and hands-on skills. The areas of focus will include a blending of safety, measurement, theory tools and equipment, and manufacturing processes. Students will apply their knowledge in the design and construction of teacher/student selected projects. The skills learned in this course will prove to be invaluable over a lifetime as well as opening doors to a variety of career options.



Woodworking for Girls

The following three courses are **girls-only classes** without any pressure from the guys! A great place where girls can learn and find out more about the wonderful craft of woodworking.

Carpentry & Joinery 10

[4 CREDITS - Grade 10 - Applied Skills]

Prerequisite: None

This course is a **girls-only** introduction to woodworking. Students will become familiar with the safe use of tools and machines, and the craft of woodworking through teacher-directed projects and by projects that you choose and design yourself. The class will cover basic joinery and woodworking techniques along with an introductory unit using our computerized CNC router. Projects may include wood carving, Intarsia, Cutting Boards, Jewelry Boxes, Clocks, Wood Bowls, and CNC sign making.

Carpentry & Joinery 11: Girls

[4 CREDITS - Grade 11 - Applied Skills]

Prerequisite: None

This is a **girls-only** introduction to woodworking. Students will become familiar with the safe use of tools and machines and the craft of Woodworking through teacher directed projects and by projects that you choose and design yourself. The objective of this course is to offer a combination of knowledge and 'hand-tool' skills that will prove valuable over a lifetime as well as opening doors to a variety of career options. The class will cover intermediate woodworking techniques and design skills. Projects may include wood carving, intarsia, cutting boards, jewelry boxes, clocks, wood bowl turning, furniture, chests and an introductory / intermediate unit on our computerized CNC router.

Carpentry & Joinery 12: Girls Skill Level 2/3

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Carpentry and Joinery 11

The main objective of this **girls-only** course is to offer an advanced combination of previously taught knowledge and hands-on skills. The areas of focus will include a blending of safety, measurement, theory tools and equipment, and manufacturing processes. Students will apply their knowledge in the design and construction of teacher/student selected projects. The skills learnt in this course will prove to be invaluable over a lifetime as well as opening doors to a variety of career options.

Carpentry & Joinery 12: Furniture Construction

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Woodwork 11

This advanced woodworking course will introduce students to the design and construction techniques of furniture. Students will solve design problems of various projects that may include stools, chairs, tables and desks, and storage and shelving units.

A variety of modern construction techniques will be used including our CNC router table and vacuum bag press. Students will be expected to keep a design portfolio and to calculate material quantities and costs. This is an excellent preparatory course for those planning a career in the Woodworking industry.

Carpentry & Joinery 12: CNC Wood Processes

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite:

This course takes the computer and applies it to the modern Woodworking shop. Students will learn about Computer Aided Manufacturing Systems (CAM) by using our CNC router table. Topics Include: Computer Numeric Control (CNC) programming, safe set-up and operating procedures for CNC machines, using CAD / CAM software to create CNC tool paths and how to and use them to create and build projects such as jewelry boxes, wood carvings, signs, and furniture.

Carpentry & Joinery 12: Cabinet Construction

[4 CREDITS - Grade 12 or Applied Skills]

Prerequisite: Wood Products Advanced or Carpentry & Joinery 11.

This advanced course looks at the role of mass production in a woodwork shop.

Mass production techniques will be explored through teacher and student directed furniture projects using the basic joinery skills learned in previous classes. Students will be expected to keep a design portfolio, produce a manufacturing flow chart and to calculate material quantities and costs. Modern production techniques like CNC machining and Vacuum Bag Presses will also be incorporated. This is another excellent preparatory course for those interested in a career in the Wood Manufacturing Industry.



Library



BAA Library Sciences 10

[4 CREDITS - Grade 10 - Board Authorized Course]

Prerequisite: Permission of the Teacher-Librarian. Please see the Teacher-Librarian for an application form.

This course is a practical, hands-on experience in which students learn a number of skills pertinent to the operation and management of libraries. This course is open to students going into Grade 10. Attendance and involvement are very significant factors in a student's success.

BAA Library Sciences 11

[4 CREDITS - Grade 11 - Board Authorized Course]

Prerequisite: Permission of the Teacher-Librarian

Please see the teacher-librarian for an application form.

This locally developed course is open to students going into Grades 11 or 12, or to students going into Grade 10 who have successfully completed Library Media and Technology 10. It is a practical, hands-on experience for those interested in learning about library operations and management, information access, and related technologies. Attendance and involvement are very significant factors in a student's success.

No previous experience in library work is needed.

BAA Information Literacy / Library Sciences 12

[4 CREDITS - Grade 12 - Board Authorized Course]

Prerequisite: Permission of the Teacher-Librarian

Please see the teacher-librarian for an application form.

In this locally developed course, students will have an opportunity to learn further about library management, organization and service skills.

Students will learn to apply the research process to a variety of information needs using library resources, electronic databases and the internet.

Regular attendance and the ability to work independently is crucial for success in this course



Peer Tutoring

BAA Peer Tutoring 10

[4 CREDITS - Grade 10 - Board Authorized Course]

BAA Peer Tutoring 11

[4 CREDITS - Grade 11- Board Authorized Course]

BAA Peer Tutoring 12

[4 CREDITS - Grade 11- Board Authorized Course]

Prerequisite: Permission from the Learner Support Team

Peer tutoring is a course for students wishing to help other students.

Peer tutors achieving exceptional success will have an excellent reference for teaching programs in post secondary schools. Students who wish to become peer tutors should display the following qualities:

- * Responsibility
- * Friendliness
- * Positive attitude
- * Flexibility
- * Patience
- * Maturity

The criteria for acceptance into the Peer Tutoring Program:

1. *A good academic background in at least one subject area.*
2. *Possess strong interpersonal skills. They should feel comfortable talking to students and teachers.*
3. *Good work habits and a good record of attendance. They should be role models for the students in the classrooms they support.*
4. *An enjoyment and desire to help others learn*

Students interested in becoming Peer Tutors must:

- ✓ *complete a Peer Tutoring Application Form*
- ✓ *meet with L.S.T. Dept for an interview*
- ✓ *get a recommendation from a teacher*
- ✓ *Grade 12 Peer Tutoring is only available to students who have completed Peer Tutoring 10 or 11*

*** Most peer tutors will be placed in Grade 8 and 9 classrooms to help support students in Humanities, Math or Science*

Special Programs at Fleetwood Park

Learner Support

Fleetwood Park "Learning Assistance" seeks to support students in the regular classroom by using a variety of interventions. Assistance is provided through collaboration with classroom teachers, small group pull out and in-class assistance. Students, teachers, parents and the School Based Team may refer students for learning assistance help.

Other services provided include Peer Tutoring and before / after school study groups. Peer tutoring involves senior students who are assigned to classrooms to support younger learners. The before / after school study group provides assistance to students in homework, skills and study techniques.

Learner Support Team / English Language Learners

The **E.L.L. Welcome Center** gives assessment tests to all incoming **ELL** students. After establishing the students' level of language, they are assigned the classes appropriate to their level. Lower Beginner students receive four E.L.L. classes; Upper Beginner students receive three E.L.L. classes; Lower Intermediate receive English 10 E.L.L. Upper Intermediate and Advanced students are fully integrated. E.L.L. teachers are available to give assistance to all E.L.L. students before and after school on an ongoing basis.

B.A.S.E.S. Program

The B.A.S.E.S. Program (grades 8-12) provides services for students who are placed by district referral. All students have met the Ministry of Education guidelines for placement. Students in the B.A.S.E.S. program attend the BASES room where they complete work from their integrated classes and/or receive individual and small group instruction in functional academic, social and employment skills.

DISTRICT PARTNERSHIP PROGRAMS

The Surrey School District offers a number of District Partnership Programs. These programs generally require that students spend one semester of their grade 11 and/or 12 year at their home based school, and one semester of each senior year at an off school site. Surrey's Partnership Programs provide students the opportunities to receive industry certification, or post secondary course credits, in addition to meeting the requirements for high school graduation. "Partners" in these programs include Kwantlen College, BCIT and Camosan College.

**** Application forms must be submitted to the Career Education office by April 1st, 2012.**

The following programs are available:

Carpentry, Electrical and Industrial Electronics Program, Hairdressing, Millwright/Machinist, , Steel Fabrication, Auto Service Technician, Baking & Pastry Arts, Carpentry, Culinary Arts, Horticulture, Parts and Warehousing, Plumbing, and Welding

SECONDARY SCHOOL APPRENTICESHIP (SSA)

The SSA Program offers students the opportunity to begin an apprenticeship while completing secondary school. Secondary School Apprenticeship depends on employers to provide youth with on-the-job training in their chosen field. Students who have a part-time job in a trade area are candidates for SSA. It is the student's responsibility to secure appropriate employment. Students registered in the SSA Program attend regular classes toward graduation, and also participate in paid workplace training as registered apprentices. Through this program students become registered as an apprentice, acquire paid work, learn the skills associated with the trade, receive dual credit towards secondary courses and towards their first year apprenticeship.

The District Partnership Programs are an excellent way to begin the Secondary School Apprenticeship Program.

C a r e e r P r o g r a m s

These Career Education Programs provide a valuable opportunity for students to integrate career exploration with secondary school studies.

Science Exploration at Fleetwood Park

- One semester Career Education Program
- Allows students to obtain 20 credits in one semester
- A work experience completed within one semester – 4 grade 12 credits
- Complete work experience and NOT miss instructional time
- Students meet course requirements while working with one or two teachers and a cohesive, focused, peer group
- Students are able to obtain credit for foundation courses while researching career opportunities and learning valuable employability skills
- Requirements for Graduation Transitions - Personal Fitness and Community Connections are completed as part of the Co-op.

SCIENCE Exploration (20 credits)

Biology 11
(4 credits)

Chemistry 11
(4 credits)

Pre-Calculus 11
(4 credits)

Work Experience 12B
(4 credits)

BAA Outdoor Pursuits 11
(4 credits)

(*Fitness & Planning for Field Experience
on Vancouver Island)

**For more information on the Science Exploration Program,
stop by the Career Education Office,
or call: (604) 507-1511**

